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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/479,708	01/07/2000	ALLEN P MILLS JR.	MILLS-11	3424
26345	7590 01/03/2002			
GIBBONS, DEL DEO, DOLAN, GRIFFINGER & VECCHIONE			EXAMINER	
1 RIVERFRO	NT PLAZA J 07102-5497		WARREN, MATTHEW E	
			ART UNIT	PAPER NUMBER
	,		2815	
			DATE MAIL ED. 01/02/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
	•	09/479,708	MILLS, ALLEN P
•	Office Action Summary	Examiner	Art Unit
	Office Action Summary	Matthew E. Warren	2815
	The MALLING DATE of this communi	ication appears on the cover she two	ith the corr spondenc address
ariad for R	?enlv		
A SHOR THE MA - Extension after SIX - If the peri - If NO per - Failure to - Any reply earned pa	TENED STATUTORY PERIOD FOR ILLING DATE OF THIS COMMUNION of time may be available under the provisions (6) MONTHS from the mailing date of this commod for reply specified above is less than thirty (3) is deferred to reply is specified above, the maximum stated for reply is specified above, the maximum stated for reply is specified above.	nunication.	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this communication. BRANDONED (35 U.S.C. § 133).
Status 1)⊠ F	Responsive to communication(s) fi	led on <u>09 October 2001</u> .	
2-7	This action is FINAL	2b)⊠ This action is non-final.	
,	3111 -	n for allowance except for formal m ctice under <i>Ex parte Quayle</i> , 1935 C	atters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
Dispo s itior	n of Claims		
4)⊠ C	laim(s) 1-33 is/are pending in the	application.	
48	a) Of the above claim(s) is/a	are withdrawn from consideration.	
5)□ C	claim(s) is/are allowed.		
6)⊠ C	claim(s) <u>1-33</u> is/are rejected.		
7) 🗌 C	Claim(s) is/are objected to.		
8) 🗌 C	Claim(s) are subject to restr	iction and/or election requirement.	
Applicatio			
9) 🗌 TI	he specification is objected to by t	he Examiner.	wtho Evaminer
10)∐ TI	he drawing(s) filed on is/are	e: a) accepted or b) objected to b	evance See 37 CFR 1.85(a).
	Applicant may not request that any o	bjection to the drawing(s) be held in ab	disapproved by the Examiner.
11) 🔲 T	he proposed drawing correction fil	ed on is: a) approved b) approved b) approved b) approved b)	2 die 2 f. 1.
	If approved, corrected drawings are i	to by the Examiner.	
	he oath or declaration is objected	to by the Examiner	
Priority ur	nder 35 U.S.C. §§ 119 and 120	im for foreign priority under 35 U.S.	C. § 119(a)-(d) or (f).
			•
	All b) Some * c) None of	ty documents have been received.	
	1. Certified copies of the priori	ty documents have been received	n Application No
	- Consider of the contified conid	es of the priority documents have be	een received in this National Stage
	application from the Inte	tion for a list of the certified copies	not received.
141□ Δ	cknowledgment is made of a clain	n for domestic priority under 35 U.S	S.C. § 119(e) (to a provisional application)
	- Lucian af the foreign	language provisional application ham for domestic priority under 35 U.S	is been received.
Attachment			
1) Notic	te of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449	w (PTO-948) 5) Notice	view Summary (PTO-413) Paper No(s) te of Informal Patent Application (PTO-152) r:

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DETAILED ACTION

This Office Action is in response to the Amendment filed on October 9, 2001.

Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18, 23-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant's Prior Art Figure 1 (APAF 1) in view of Tsao (US 5,394,343).

With respect to the limitations of the preamble concerning "using a plurality of data resistors to interconnect a plurality of input word lines with a plurality of output bit lines, ... to maintain a current through a selected one of said data resistors substantially constant," the recitation has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim following the preamble is a self-contained description of the structure not depending for

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completeness upon the introductory clause. Kropa v. Robie, 88 USPQ 478 (CCPA 1951). The APAF 1 discloses (pg. 2, line 22 - pg. 4, line 5) a ROM device having a temperature compensation circuit comprising a reference resistor in which the conductivity is responsive to changes in temperature and a switch (22) to couple the voltage to input word lines (28). The electrical conductive properties of the reference resistor are the same as the electrical conductive properties of data resistors (30) in the circuit. The material of the data resistor is polysilicon which could be doped or undoped. APAF 1 does not specify that the resistor is metal oxide but is well known that any material in the realm of semiconductors is resistive material, those resistive materials including metal oxide. A sense amplifiers are coupled to output bit lines (40) wherein the bit lines comprise an operational amplifier having a fixed feedback resistor which is temperature independent. The APAF 1 shows all of the elements of the claims except the temperature compensation circuit having a constant current source coupled to at least one reference resistor. Tsao discloses (col. 5, lines 12-18) a sensor device having a temperature compensation circuit comprising a constant current source coupled to a reference resistor (52) and inherently develops a voltage across the resistor. The compensation circuit comprising the constant current source reduces errors resulting from a change in temperature. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the temperature compensation circuit of the APAF 1 by coupling the circuit to a reference resistor using a constant current source as taught by Tsao to reduce errors resulting from a change in temperature.

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Claims 19-22, 32, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art Figure 1 (APAF 1) in view of Suzuki et al. (US 5,544,000).

With respect to the limitations of the preamble concerning "said ROM employs a plurality of data resistors to provide electrical interconnections between a plurality of input lines and output lines," the recitation has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause. Kropa v. Robie, 88 USPQ 478 (CCPA 1951). Furthermore, it has been held that to be entitled to weight in method claims, the recited-structure limitations therein must affect the method in a manipulative sense, and not to amount to the mere claiming of a use of a particular structure. Ex parte Pfeiffer, 1962 C.D. 408 (1961). The APAF 1 discloses (pg. 2, line 22 - pg. 4, line 5) a method of a temperature compensation for ROM device having a temperature compensation circuit comprising a reference resistor in which the conductivity is responsive to changes in temperature and a switch (22) to couple the voltage to input word lines (28). The electrical conductive properties of the reference resistor are the same as the electrical conductive properties of data resistors (30) in the circuit. The material of the data resistor is polysilicon which could be doped or undoped. A sense amplifiers are coupled to output bit lines (40) wherein the bit lines comprise an operational amplifier having a fixed feedback resistor which is temperature independent. The APAF 1 shows all of the elements of the claims except the method of maintaining

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the current comprising supplying the reference voltage to input lines by supplying a constant current to the reference resistor wherein the reference voltage is responsive to a change in temperature. Suzuki et al. discloses (col. 6, lines 20-35) a sensor comprising a method of maintaining a constant current in a temperature compensation circuit by supplying a reference voltage to input lines and the reference voltage is responsive to a change in temperature. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of maintaining the temperature compensation circuit of the APAF 1 by supplying a reference voltage that is responsive to a change in temperature as taught by Suzuki to supply a constant current and ultimate reduce errors resulting from temperature changes.

Response to Arguments

Applicant's arguments with respect to claims 1-33 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew E. Warren whose telephone number is (703) 305-0760. The examiner can normally be reached on Mon-Thurs, and alternating Fri, 9:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MEW

December 30, 2001

EDDIE LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800